

ZOOK®



Welded Solutions

Rupture Disks for Challenging Applications



Safety through **knowledge** and **performance**.

About ZOOK

ZOOK is a global market leader with over 90 years of manufacturing expertise of quality metal & graphite rupture disks and other pressure relief products. ZOOK has global locations in the USA, United Kingdom, Canada and Malaysia, with state-of-the-art manufacturing facilities.

ZOOK designs custom and standard pressure relief solutions in both metal and graphite for numerous industries such as, oil and gas, chemical processing, petroleum refining, OEM, pharmaceutical, food and beverage, transportation and powder / bulk.

Welded Solutions for Challenging Applications

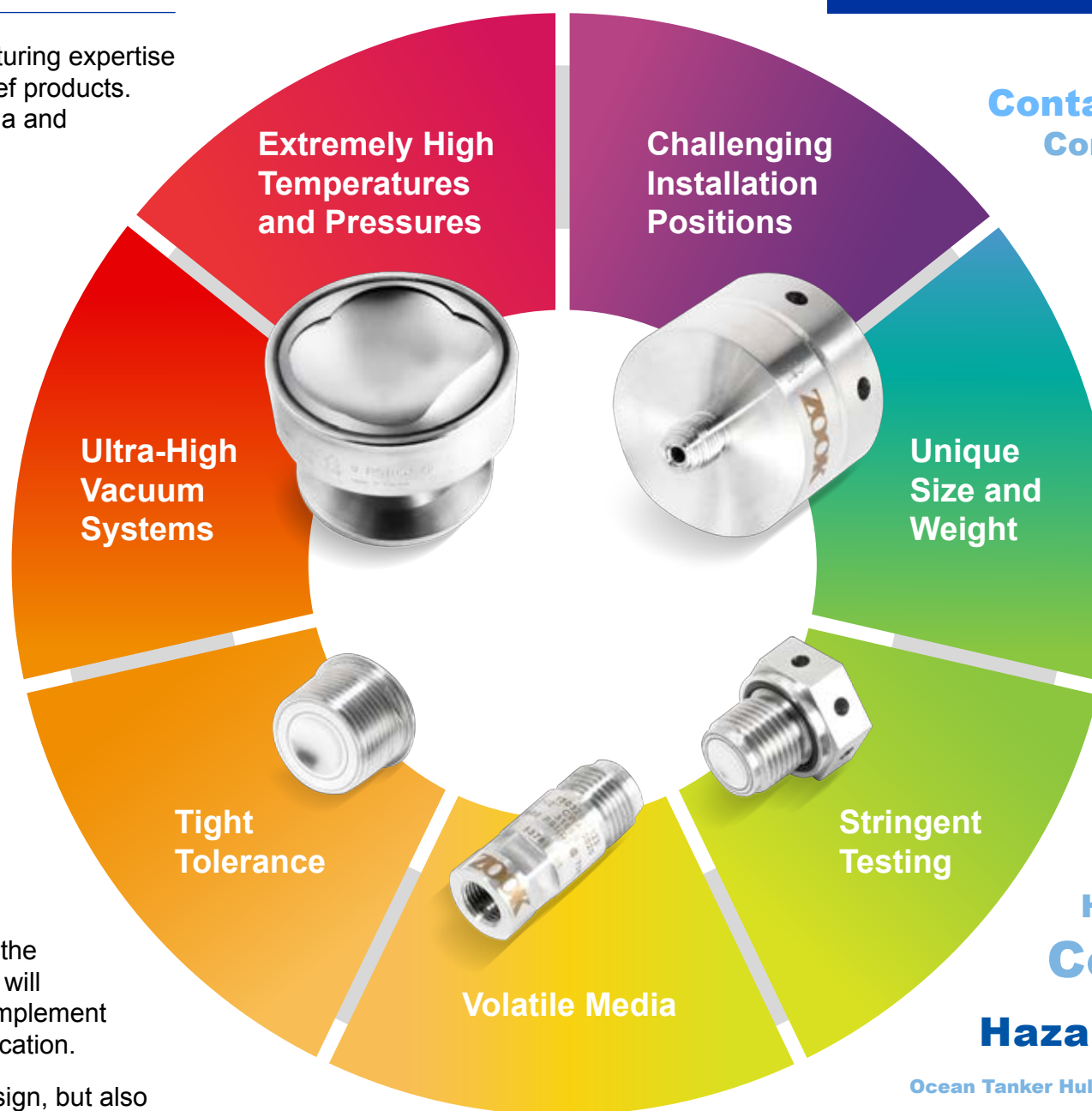
Many customer applications cannot be met using standard rupture disk designs. ZOOK's Welded Solutions department is dedicated to the design and development of customized rupture disk assemblies tailored to specific customer applications.

ZOOK offers a large assortment of welded designs for a wide variety of applications with custom fittings and connections for stringent applications such as ultra-high vacuum, OEM markets, military, aerospace, and many other high-end engineering industries.

ZOOK has combined state-of-the-art equipment with in-house design engineers to ensure that customers' needs are met with the best solutions for their specific needs. ZOOK Design Engineers will work with your engineering team to streamline the design and implement a fact-finding process to develop the best solution for your application.

Building a robust solution not only necessitates an excellent design, but also requires validation to back it up. ZOOK Engineering and Manufacturing have invested heavily in validation equipment and techniques to test the design, fit, and quality of components.

Many Applications are Perfect for Welded Pressure Relief Devices



Containment Vessels **Bioreactors** **Pipeline Pumps**
Compressor/Pump Stations **Flare Stacks**

Battery Chillers **Lab Instrumentation**
Transportation

HVAC **Process Vessels**
Power Plants **Pump & Valve Protection**

Marine Cargo Containers **Cryogenic Gas**

Compressed & Cryogenic Gas Containment

Distillation **Autoclave** **Cementing**

Storage **Accumulators**

Boilers **Fracking**

Compressed Gas

Wellhead Protection

Desalination **Pressure Activation Equipment**
Research & Testing

Overpressure of Equipment

Heat Exchangers **Extrusion Barrel**

Cooling Towers **Filtration Systems**
Fermenters

Hazardous Materials **Separation**

Ocean Tanker Hull Protection **Boiler Feed Piping** **Process Piping**

Boiler **Air Conditioners & Refrigeration Systems**

ZOOK OFFERS THE HIGHEST QUALITY CONTROL

- 100% Leak Testing
- Burst Testing
- Weld & Body Pressure Testing
- Digital Inspection of Threads & Body Dimensions
- Ultra Sonically Cleaned
- 100% Material Traceability
- Outsourced 3rd Party Welded Joint and Component Non-destructive Testing
- Cycle Testing
- 3rd Party Precision Cleaning
- Custom Packaging
- Private Labelling
- Application Specific Design Review Directly with the Customers End Users
- Test Plan Development
 - Inspection and Test Plans
 - PPAP (Production Part Approval Process) Submissions
 - Control Plans
 - Video / Photographic Borescope Inspections

Benefits of Using a Welded Solution

- One-Piece Welded Design that meets customers specified pressure protection requirements or pressure event management
- Hermetic Seal provides maximum leak tightness with helium leak rates as low as 1×10^{-9} std.cc/sec
- Custom Housing and Connections
- Optimized Assembly Geometry
- Easy to Install which Reduces the Chance of Damage or Premature Failure
- Especially for Aerospace applications, ZOOK recognizes the importance of weight savings in its design considerations

ZOOK Welded Rupture Disks are Manufactured in Accordance to Global Standards:

EN ISO 4126-2

Pressure Equipment Directive

ASME Section XIII

AWS D17.1

ASME Section IX

Standard Disk Types:

- Pre-Bulged
- Scored Forward Acting
- Reverse Acting (RA4, RA6, RA8 & RAX)
- ZANITARY® Series

Common Disk Materials

(Contact ZOOK for other disk materials):

316 & 304 Stainless Steel

600 Inconel

200/201 Nickel

400 Monel

C276 Hastelloy

INDUSTRIES WE SERVE

- Magnetic Resonance Imaging
- Military and Defense
- Oil and Gas
- Aviation

- Outer Space Equipment
- OEM (Original Equipment Manufacturers)
- Refrigeration Systems

- Research Universities and Laboratories
- Ultra-Pure Applications
- Plastic Extrusion
- Power and Energy

ZOOK is committed to finding pressure relief solutions for our customers that maximize their productivity and performance while keeping them safe. ZOOK is a global market leader with over 90 years of manufacturing expertise of high quality metal & graphite rupture disks and other pressure relief products. ZOOK has global locations in the USA, United Kingdom, Canada and Malaysia, with state-of-the-art manufacturing facilities in Canada and the USA.

Our products are sold in 65+ countries and to-date have over 6,000 customers buying our products worldwide.

We are dedicated to investing heavily in the latest technology and production to stay competitive in the marketplace, and are able to offer comprehensive solutions to the selection and sizing of products best suited for each customer application.

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